# **REMARKS**

# I. Status of the Claims and Amendments

Claims 1-29 were pending. Claims 14-25, 28, and 29 were withdrawn by the Office as being drawn to a non-elected invention. Office Action, page 2. Applicants have canceled claims 14-25, 28, and 29 without prejudice or disclaimer of that subject matter and they reserve their right to file a divisional application directed to the non-elected subject matter. Applicants have also canceled claims 9-13, 26, and 27 also without in anyway disclaiming the subject matter of those claims. They reserve their right to file one or more continuation application based on canceled claims 9-13, 26, and 27. New claims 30-33 have been added.

Claim 1 has been amended to clarify that the endophyte is a "biologically pure culture of an endophyte." Support for this amendment is found throughout the specification and original, for example, in claim 7 and in the disclosure at page 8, lines 9-22. Applicants have also amended the preambles of claims 2-8 to reflect the amendment to claim 1. Accordingly, those amendments are supported in the same location.

The language of claim 1 has also been amended to clarify that the endophyte is "characterised in that when the endophyte is combined with a host grass, the endophyte does not produce alkaloid compounds at levels associated with toxicosis in animals . . . . ." Applicants respectfully submit that this amendment merely clarifies what was already recited in the claim. Accordingly, support is found in original claim 1 and the amendment does not alter the claim scope. Support for the amendment is also found in the abstract of the specification, among other locations.

In addition, Applicants have amended claim 1 to recite that the endophyte is "characterised in that when the endophyte is combined with a host grass, the endophyte produces at least two clavine alkaloids selected from the group consisting of: agroclavine; setoclavine; isosetoclavine; and combinations thereof." In this case, too, Applicants respectfully submit that this amendment merely clarifies what was already recited in the claim and does not alter its scope. Support is found in original claim 1 and in the abstract of the specification, among other locations.

The amendments to claims 2-5 bring the language of those dependent claims into line with the amendments to claim 1. Accordingly, support for those amendment is found at least in original claims 1-5 and in the abstract of the specification. Dependent claim 6 incorporates the language canceled from claim 1. Support is therefore found at least in original claim 1. Claim 7 has been amended to depend from claim 6 and to recite the subject matter that was previously found in claim 6. Thus, the amendments to claim 7 are supported at least in original claim 6. The amendments to claim 8 revise its dependency (from claim 7 to claim 1) and clarify that the culture is a biologically pure culture. Support for the amendments to claim 8 is found at least in original claim 7, and in the same locations as for claim 1, from which it now depends.

New claims 30 and 32 find support throughout the specification and original claims; for example, original claim 7 New claim 32 also finds explicit support on page 14, lines 22-26, and in Table 2 on page 15. New claims 31 and 33 are supported at least by original claim 8, and in the specification on page 5, line 29.

These amendments do not add any new matter.

# II. <u>35 U.S.C. § 101</u>

The Office rejects claims 1-13 and 26-27 under 35 U.S.C. § 101 as drawn to nonstatutory subject matter because, according to the Office, the claim reads on an organism as found in nature. Office Action, page 2. Applicants have amended the claims as the Office suggests. They therefore respectfully request that the Office withdraw the rejection.

# III. 35 U.S.C. § 112, Second Paragraph

Claims 1-7, 9-13, and 26-27 stand rejected under 35 U.S.C. § 112, second paragraph as allegedly indefinite for various reasons. Office Action, page 3.

According to the Office, claims 1 and 7 are indefinite in their recitation of a process step in a product claim. *Id.* Applicants have deleted the process language from claim and amended claim 7 to depend indirectly from claim 1.

It is also the Office's position that "the properties recited are in terms of and dependent upon the growth of the [endophyte] on a host grass and are not descriptive of the properties of the strains intended." *Id.* Applicants have amended the claim language so that it is more descriptive of properties of the endophyte. Although those properties only manifest upon culture of the endophyte in its host grass, Applicants respectfully submit that they nevertheless serve to describe properties of the endophytes. "If the language of the claim is such that a person of ordinary skill in the art could not interpret the metes and bounds of the claim so as to understand how to avoid infringement, a rejection of the claim under 35 U.S.C. § 112, second paragraph, would be appropriate." M.P.E.P. § 2173.02. In this case, however, although the person of ordinary skill would need to grow the endophyte culture on a host grass to determine

whether it was within the metes and bounds of the claim, once that test was undertaken, it would be clear whether the endophyte was within the scope of the claims. Thus, Applicants respectfully submit that the claims are reasonably precise, which is all that is required. *Id.* For the same reasons, Applicants respectfully submit that claims 2-6 do further limit the subject matter of claim 1.

The Office objects to claims 4-6, 10-13, and 26-27 under 37 C.F.R. § 1.75(c) as being in improper multiple dependent form. *Id.* Applicants have amended the claims so that they are no longer multiply dependent.

## IV. 35 U.S.C. § 112, first paragraph

The Office rejects 1-13 and 26-27 under 35 U.S.C. § 112, first paragraph, as allegedly containing subject matter which is not described in the specification in such a way as to enable the skilled artisan to practice the claimed invention. *Id.* The Office asks that Applicants clarify whether the recited strains have been deposited so that the starting material will be available to the public. *Id.* at 4.

Applicants enclose as an attachment to this response copies of the deposit certificates for each of the recited strains. As indicated on the deposit certificates, each endophyte was deposited with the Australian Government Analytical Laboratories (AGAL), The New South Wales Regional Laboratory, 1, Suakin Street Pymble NSW 2073, Australia, on October 2, 2002, under the terms of the Budapest Treaty on the International Recognition of the Deposit of Microorganisms for the Purposes of Patent Procedure (see title of form). All restrictions on the availability to the public of the deposited material will be irrevocably removed upon the granting of a patent.

The original deposit was specifically identified in the application as-filed on page 4, lines 24-28 and on page 8, lines 10-17, among other places. However, Applicants have amended the specification on page 8 to clearly indicate the relationship between each name and deposit number, to provide the address of the international depository authority, and to list the date of the deposit. The strains are described in detail in the specification in terms of the chemicals they produce when cultivated (e.g., Table 1) and their genotype with respect to microsatellite mapping for alleles B10 and B11 (Table 2.) Accordingly, Applicants respectfully request that the Office withdraw this rejection.

# V. <u>Rejections Under 35 U.S.C. §§ 102/103(a)</u>

#### A. Waller

Claims 1-13 and 26-27 stand rejected under 35 U.S.C. § 102(b) as allegedly anticipated by or, in the alternative, under 35 U.S.C. § 103(a) as allegedly unpatentable over Waller et al., "Tall Fescues with Novel Endophytes in Tennessee." In Proc 4<sup>th</sup> Int'l Neotyphodium/Grass Interactions Symp (2000) ("Waller"). Office action, page 5.

The Office characterizes the claims as drawn to "Neotyphodium coenophialum strains which are non-toxic for animals in conjunction with grasses." Id. It points to the strains described in the Results, and Tables I and II of Waller and notes that those strains are non-toxic for grazing animals. Id. It is therefore the Office's position that the claimed strains are either the same as those taught by Waller, id., or else their differences are "so slight that the referenced microorganisms are likely to inherently possess the same characteristics," id. at 6.

Applicants respectfully traverse this rejection. "In relying upon the theory of inherency, the examiner must provide a basis in fact and/or technical reasoning to

reasonably support the determination that the allegedly inherent characteristic necessarily flows from the teachings of the applied prior art." M.P.E.P. 2112.IV (quoting *Ex parte Levy*, 17 U.S.P.Q.2d 1461, 1464 (Bd. Pat. App. & Inter. 1990)). Further, "[a] claim limitation is inherent in the prior art if it is necessarily present in the prior art, not merely probably or possibly present." *Akamai Technologies, Inc. v. Cable & Wireless Internet Serv., Inc.*, 344 F.3d 1186, 1192, 68 U.S.P.Q.2d 1186, 1190 (Fed. Cir. 2003).

As an initial matter, Applicants note that, despite the Office's characterization of the claims as drawn to any N. coenophialum strain that is non-toxic for animals in conjunction with grasses, the claims considered by the Office included additional elements. In addition, the Office's inherency argument fails to address the evidence presented in the specification that indicates that not all strains of N. coenophialum that are non-toxic to grazing animals have the same properties. Specifically, Table 1 on page 13 and Table 2 on page 15 summarizes data for various of the claimed strains compared to strains AR501 and AR542. Table 1 of the current application shows that strain AR542 does not produce detectable levels of the clavine alkaloids and strain AR501 produces only trace or low levels of clavine alkaloids. In addition, as shown in Table 2 on page 15, each of AR501 and AR542 has only two alleles at the B10 locus. U.S. Patent No. 6,111,170, previously considered by the Office, describes these strains in more detail and notes that AR501 belongs to the same group as strain AR502, at least as determined by allele analysis. U.S. Patent No. 6,111,179, col. 5, Table 2. Thus, a non-toxic N. coenophialum endophyte is not necessarily a N. coenophialum endophyte as claimed.

Waller describes studies with strains AR502 and AR542. Those strains, however, do not possess either the same functional properties (production of at least two clavine alkaloids selected from the group consisting of: agroclavine; setoclavine; isosetoclavine, as disclosed for the claimed strains, or genotypic properties, such as at the presence of three B10 alleles. Accordingly, those strains do not anticipate the claimed strains.

Further, AR502 and AR542 do not render the claimed strains obvious, contrary to the Office's assertion. "Rejections on obviousness cannot be sustained by mere conclusory statement; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. \_, 82 USPQ2d 1385, 1396 (2007). In this case, the specification provides direct evidence that the claimed strains have unique properties. In particular, as summarized in the specification on page 7, lines 11-17, the claimed endophytes produce only low levels of the alkaloid ergovaline (and so they do not cause toxicosis in grazing animals) *but still produce at least two clavine alkaloids*. The production of the clavine alkaloids is important to the symbiote's ability to resist abiotic stresses, such as water deficit, and to resist pests.

For the reasons given, the claims are neither anticipated by nor obvious variations of the strains taught by Waller. Accordingly, Applicants respectfully request that the Office withdraw these rejections.

#### B. Smith

Claims 1-13 and 26-27 stand rejected under 35 U.S.C. § 102(b) as allegedly anticipated by or, in the alternative, under 35 U.S.C. § 103(a) as allegedly unpatentable

over Smith et al., "Crop and Soil Environmental Sciences" Pub 418-050 (2002) ("Smith"). Office action, page 6.

The Office again characterizes the claims as drawn to "Neotyphodium coenophialum strains which are non-toxic for animals in conjunction with grasses." Id. It points to the last page at column 2 for Smith's teaching of a non-toxic endophyte "MaxQ". Id.

Smith's MaxQ<sup>™</sup> strain is referenced in the specification on page 2, lines 2-3. It was described in U.S. Patent No. 6,111,170 (of record) and by Bouton, 2000 (of record) and Bouton, 2002 (of record). As taught in Bouton, 2000, page 167 (just before table 5), "MaxQ<sup>™</sup>" is the trade name under which AR542 is marketed. Applicants have addressed the reasons why strain AR542 neither anticipates nor renders obvious the claimed strains *supra* in part V.B. Therefore, they respectfully request that the Office withdraw this rejection.

#### C. Matthews

Claims 1-13 and 26-27 stand rejected under 35 U.S.C. § 102(b) as allegedly anticipated by or, in the alternative, under 35 U.S.C. § 103(a) as allegedly unpatentable over Matthews et al., J. Anim. Sci. 83:1179-85 (2005) ("Matthews"). Office action, page 7.

Applicants respectfully traverse this rejection. Matthews is a printed, non-patent publication that published in 2005. The instant application is the National Stage of International Application PCT/NZ03/00219, filed Sept. 26, 2003. Accordingly, Matthews is not available as a reference under any section of 35 U.S.C. § 102. Applicants respectfully request that the Office withdraw this rejection.

# D. Smith

Claims 1-13 and 26-27 stand rejected under 35 U.S.C. § 102(b) as allegedly anticipated by or, in the alternative, under 35 U.S.C. § 103(a) as allegedly unpatentable over Bouton et al., Agronomy J. 94:567-74 (2002) ("Bouton"). Office action, page 7. The Office points to the teachings of Bouton in Table 1 in rejecting the claims. *Id.* 

Applicants respectfully traverse this rejection for the reasons discussed in detail *supra* in part V.B. In particular, they note that Bouton teaches strains AR502, AR510, AR542, AR572, and AR577. Those strains are described in detail in U.S. Patent No. 6,111,170 (of record). As taught in the '170 patent, strains AR502, AR510, AR572, and AR577 belong to one group based on their microsatellite patterns, while AR542 belongs to another group. '170 patent, col. 5, Table 2. Neither group, however, has the same microsatellite pattern as the claimed strains, at least because the strains in the '170 patent all have only two alleles at the B10 locus. Therefore, those strains do not possess the same genetic properties as the claimed strains. Also, there is no evidence that the strains in Bouton produce at least two clavine alkaloids selected from the group consisting of: agroclavine; setoclavine; isosetoclavine. To the contrary, the evidence in the specification suggest they do not produce detectable levels of those clavine alkaloids.

The endophyte strains described in Bouton have different genetic properties and there is no evidence that they possess all of the same functional properties as the claimed strains. That reference, therefore does not teach or suggest the claimed strains. Applicants respectfully request that the Office withdraw the rejection.

# Conclusion

In view of the foregoing amendments and remarks, Applicants respectfully request reconsideration and reexamination of this application and the timely allowance of the pending claims.

Please grant any extensions of time required to enter this response and charge any additional required fees to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Dated: July 21, 2008

*q*essica H.,Roari Reg. No. 54,869

#### INTERNATIONAL FORM

Grasslands Research Centre iss Tennent Drive IN Private Bag 11008 ide	BCBIPT IN THE CASE OF AN ORIGINAL DEPOSIT sued pursuant to Rule 7.1 by the ITERNATIONAL DEPOSITARY AUTHORITY entified at the bottom of this page				
Palmerston North New Zealand	•				
ATTENTION: Wayne Simpson NAME AND ADDRESS					
[ OF DEPOSITOR ]					
1 IDENTIFICATION OF THE MICROORGANISM					
Identification reference given by the DBPOSITOR:	Accession number given by the INTERNATIONAL DEPOSITARY AUTHORITY:				
Neotyphodium coenophialum AR512	NM02/31935				
II SCIENTIFIC DESCRIPTION AND/OR PROPOSED TA	XONOMIC DESIGNATION				
The microorganism identified under I above was accompanie	d by:				
a scientific description					
a proposed taxonomic designation (Mark with a cross where applicable)					
III RECEIPT AND ACCEPTANCE					
This International Depository Authority accepts the inicroorganism identified under I above, which was received by it on 2 <sup>nd</sup> October, 2002 (date of the original deposit) <sup>1</sup>					
IV RECEIPT OF REQUEST FOR CONVERSION					
The microorganism identified under I above was received by this international Depository Authority on (date of original deposit) and a request to convert the original deposit to a deposit under the Budapest Treaty was received by it on (date of receipt of request for conversion)					
V INTERNATIONAL DEPOSITARY AUTHORITY					
Name: AUSTRALIAN GOVERNMENT ANALYTICAL LABORATORIBS	Signature(s) of person(s) having the power to represent the International Depositary				
Address: PO BOX 385 PYMBLE NSW 2073	Authority or of authorised official(s)				

Where Rule 6.4(d) applies, such date is the date on which the status of International Depositary Authority was acquired.

Date: 16th October, 2002

Form BP/4 (sole page)

Phone:

**AUSTRALIA** 

Pacsimile: (02) 9449 1653

(02) 9449 0111

#### INTERNATIONAL FORM

∫ <u>ro</u> :	AgResearch Limited Grasslands Research Centre Tennent Drive Private Bag 11008 Palmerston North New Zealand	1	issued pursuant to	B CASE OF AN ORIGINAL DEPOSIT  Rule 7.1 by the  AL DEPOSITARY AUTHORITY  ottom of this page
ATTENTIO	N: Wayne Simpson			
L	NAME AND ADDRESS OF DEPOSITOR	j		
I IDBNT	HICATION OF THE MICROORGA	MISM		
Identification DEPOSITO	n reference given by the R:			Accession number given by the INTERNATIONAL DEPOSITARY AUTHORITY:
Neotyphodi	um coenophialum AR513			NM02/31936
II SCIENT	TIFIC DESCRIPTION AND/OR PRO	OPOSEI	TAXONOMIC I	PESIGNATION
The microon	rganism identified under I above was	ассолц	oanied by:	
a so	ientific description			
	oposed taxonomic designation			
(Mark with	a cross where applicable)		· · · · · · · · · · · · · · · · · · ·	
III RECEIP	T AND ACCEPTANCE			
This interna	tional Depository Authority accepts tober, 2002 (date of the original	the micr deposit)	oorganism identifi I	ed under I above, which was received by it
IV RECEIP	T OF REQUEST FOR CONVERSI	ON .		
The microon (date of orig	rganism identified under 1 above was ginal deposit) and a request to conve (date of receipt of re	t flie ori	ginal deposit to a c	nal Depository Authority on eposit under the Budapest Treaty was received by it on
V INTERN	NATIONAL DEPOSITARY AUTHO	ORITY		
	USTRALIAN GOVERNMENT			Signature(s) of person(s) having the power to represent the International Depositary
	NALYTICAL LABORATORIES O BOX 385 PYMBLE NSW 2073			Authority or of authorised official(s)
1	USTRALIA			
	02) 9449 0111 02) 9449 1653			Date: 16th October, 2002

1 Where Rule 6.4(d) applies, such date is the date on which the status of International Depositary Authority was acquired.

Porm BP/4 (sole page)

#### INTERNATIONAL FORM

Γ <u>το</u> :	AgResearch Limited
122	Grasslands Research Centre
	Tennent Drive
	Private Bag 11008

Private Bag 11008
Palmerston North
New Zealand

ATTENTION: Wayne Simpson NAME AND ADDRESS

OF DEPOSITOR

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

issued pursuant to Rule 7.1 by the

INTERNATIONAL DEPOSITARY AUTHORITY

identified at the bottom of this page

I IDENTIFICATION OF THE MICROORGANISM				
Identification reference given by the DEPOSITOR:	Accession number given by the INTERNATIONAL DEPOSITARY AUTHORITY:			
Neotyphodium coenophialum AR514	NM02/31937			
II SCIENTIFIC DESCRIPTION AND/OR PROPOSED TAXONOMIC	DESIGNATION			
The microorganism identified under I above was accompanied by:				
a scientific description				
a proposed taxonomic designation (Mark with a cross where applicable)				
III RECEIPT AND ACCEPTANCE				
This International Depository Authority accepts the microorganism identified under I above, which was received by it on 2 <sup>nd</sup> October, 2002 (date of the original deposit) 1				
IV RECEIPT OF REQUEST FOR CONVERSION				
The inicroorganism identified under I above was received by this International Depository Authority on (date of original deposit) and a request to convert the original deposit to a deposit under the Budapest Treaty was received by it on (date of receipt of request for conversion)				
V INTERNATIONAL DEPOSITARY AUTHORITY				
Name: AUSTRALIAN GOVERNMENT	Signature(s) of person(s) having the power to represent the International Depositary			
ANALYTICAL LABORATORIES Address: PO BOX 385 PYMBLE NSW 2073	Anthority or of authorised official(s)			
AUSTRALIA				
Pitone: (02) 9449 0111   Pacsimile: (02) 9449 1653	Date: 16th October, 2002			

Where Rule 6.4(d) applies, such date is the date on which the status of International Depositary Authority was acquired.

Ponn BP/4 (solo page)

#### INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

(10:	Grasslands Research Centre Tennent Drive Private Bag 11008 Palmerston North New Zealand	INTER	pursuant to Rule 7.1 by the NATIONAL DEPOSITARY AUTHORITY ied at the bottom of this page
ATTENTI	ON: Wayne Simpson		
L	NAMÉ AND ADDRESS OF DEPOSITOR	1	
i ident	TIFICATION OF THE MICROORGAN	пѕм	
Identificati DBPOSITO	ion reference given by the OR:	·····	Accession number given by the INTERNATIONAL DEPOSITARY AUTHORITY:
Neotyphod	lium coenophialum AR517		NM02/3 1938
II SCIEN	TIPIC DESCRIPTION AND/OR PROI	POSED TAXO	NOMIC DESIGNATION
The micro	organism identified under I above was a	ccompanied by	71
as	scientific description		
	n oposed taxonomic designation a a cross where applicable)		
III RECEI	PT AND ACCEPTANCE		
This lutern	national Depository Authority accepts the october, 2002 (date of the original de-	e microorganis sposit) <sup>1</sup>	m identified under I above, which was received by it
IV RECE	IPT OF REQUEST FOR CONVERSIO	N	
The micro (date of or	organism identified under I above was r iginal deposit) and a request to convert (date of receipt of req	the original de	posit to a deposit under the Budapest Treaty was received by it on
V INTER	ENATIONAL DEPOSITARY AUTHO	RITY	
	AUSTRALIAN GOVERNMENT	<del></del>	Signature(s) of person(s) having the power
A delugari	ANALYTICAL LABORATORIES PO BOX 385 PYMBLE NSW 2073		to represent the International Depositary Authority or of authorised official(s).
	AUSTRALIA		Tributing of or manuscrope and and
Phone:	(02) 9449 0111		
Receimile	(02) 9449 1653		Date: 16th October, 2002

Where Rule 6.4(d) applies, such date is the date on which the status of International Depositary Anthority was acquired.

Form BP/4 (sole page)

TO:

AgResearch Limited

#### INTERNATIONAL FORM

( <u>TQ</u> :	AgResearch Limited Grasslands Research Centre Tennent Drive Private Bag 11008		RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT issued pursuant to Rule 7.1 by the INTERNATIONAL DEPOSITARY AUTHORITY identified at the bottom of this page
---------------	---	--	--

New Zealand

ATTENTION: Wayne Simpson
NAME AND ADDRESS

NAME AND ADDRESS

Palmerston North

OF DEPOSITOR

I IDENTIFICATION OF THE MICROORGANISM Accession number given by the Identification reference given by the INTERNATIONAL DEPOSITARY AUTHORITY: DBPOSITOR: NM02/31939 Neotyphodium coenophialum AR521 II SCIENTIFIC DESCRIPTION AND/OR PROPOSED TAXONOMIC DESIGNATION The inferoorganism identified under I above was accompanied by: a scientific description a proposed taxonomic designation (Mark with a cross where applicable) III RECEIPT AND ACCEPTANCE This International Depository Authority accepts the microorganism identified under I above, which was received by it on 2<sup>ml</sup> October, 2002 (date of the original deposit) IV RECEIPT OF REQUEST FOR CONVERSION The microorganism identified under I above was received by this International Depository Authority on (date of original deposit) and a request to convert the original deposit to a deposit under the Budapest Treaty was received by it on (date of receipt of request for conversion) V INTERNATIONAL DEPOSITARY AUTHORITY Signature(s) of person(s) having the power AUSTRALIAN GOVERNMENT Name: to represent the International Depositary ANALYTICAL LABORATORIES Authority or of authorised official(s) Address: PO BOX 385 PYMBLB NSW 2073 **AUSTRALIA** (02) 9449 0111 Phone: Date: 16th October, 2002 Pacsimile: (02) 9449 1653

Where Rule 6.4(d) applies, such date is the date on which the status of International Depositary Authority was acquired.

Form BP/4 (solo page)

#### INTERNATIONAL FORM

AgResearch Limited

ſ<u>το</u>:

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

iπ:	Grasslands Research Centre Tennent Drive Private Bag 11008 Palmerston North New Zealand	•	INTERNATION	to Rule 7.1 by the IAL DEPOSITARY AUTHORITY bottom of this page
ATTENT	ON: Wayne Simpson			
	NAME AND ADDRESS OF DEPOSITOR	1	•	
<b>L</b>	OF DIA COLLON		<u> </u>	
I IDEM	tification of the microorga	MZIN		
Identificat	ion reference given by the			Accession number given by the
DBPOSIT	OR:			INTERNATIONAL DEPOSITARY AUTHORITY:
Neotvohor	dium cosnophialum AR522			NM02/31940
7.00.07				
II SCIBN	ITIFIC DESCRIPTION AND/OR PRO	POSE	ED TAXONOMIC	DBSIGNATION
The micro	organism identified under I above was	accour	ipanied by:	,
	scientific description			
	•			
	proposed taxonomic designation h a cross where applicable)			
				·
III RECE	IPT AND ACCEPTANCE		<u> </u>	
This Interion 2 <sup>nd</sup> (	national Depository Authority accepts to Dotober, 2002 (date of the original d	he mid Ieposi	croorganism identif t) <sup>1</sup>	ied under I above, which was received by it
IV RECE	IPT OF REQUEST FOR CONVERSION	M		
The micro	organism identified under I above was riginal deposit) and a request to convert (date of receipt of re	the o	riginal deposit to a	onal Depository Authority on deposit under the Budapest Treaty was received by it on
V INTE	RNATIONAL DEPOSITARY AUTHO	RITY	······································	
Name:	AUSTRALIAN GOVERNMENT			Signature(s) of person(s) having the power
	ANALYTICAL LABORATORIES			to represent the International Depositary
Address:	PO BOX 385 PYMBLB NSW 2073			Authority or of authorised official(s)

1 Where Rule 6.4(d) applies, such date is the date on which the status of International Depositary Authority was acquired.

Date: 16<sup>th</sup> October, 2002

Form BP/4 (sole page)

Phone: (02) 9449 0111 Pacsimile: (02) 9449 1653

#### INTERNATIONAL FORM

: <u>סד</u> ו	AgResearch Limited Grasslands Research Centre Tennent Drive Private Bag 11008 Palmerston North	1	RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT issued pursuant to Rule 7.1 by the INTERNATIONAL DEPOSITARY AUTHORITY Identified at the bottom of this page
---------------	--	---	--

New Zealand

ATTENTION: Wayne Simpson
NAME AND ADDRESS

OF DEPOSITOR

SITOR

I IDENTIFICATION OF THE MICROORGANISM Accession number given by the Identification reference given by the INTERNATIONAL DEPOSITARY AUTHORITY: DEPOSITOR: NM02/31941 Neotyphodium coenophialum AR524 II SCIENTIFIC DESCRIPTION AND/OR PROPOSED TAXONOMIC DESIGNATION The microorganism identified under I above was accompanied by: a scientific description a proposed taxonomic designation (Mark with a cross where applicable) III RECEIPT AND ACCEPTANCE This International Depository Authority accepts the microorganism identified under I above, which was received by it (date of the original deposit) 2<sup>nd</sup> October, 2002 IV RECEIPT OF REQUEST FOR CONVERSION The microorganism identified under I above was received by this International Depository Authority on (date of original deposit) and a request to convert the original deposit to a deposit under the Budapest Treaty was received by it on (date of receipt of request for conversion) V INTERNATIONAL DEPOSITARY AUTHORITY Signature(s) of person(s) having the power AUSTRALIAN GOVERNMENT to represent the International Depositary ANALYTICAL LABORATORIES Anthority or of authorised official(s) Address: PO BOX 385 PYMBLB NSW 2073 **AUSTRALIA** (02) 9449 0111 Phone: Date: 16th October, 2002 Facsimile: (02) 9449 1653

Where Rule 6.4(d) applies, such date is the date on which the status of International Depositary Authority was acquired.

Form BP/4 (sole page)

#### INTERNATIONAL FORM

<u>TO</u> :	AgResearch Limited Grasslands Research Centre Tennent Drive Private Bag 11008 Palmerston North New Zealand	. 1	RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT issued pursuant to Rule 7.1 by the INTERNATIONAL DEPOSITARY AUTHORITY identified at the bottom of this page
ሊሳተነነጋ <b>እየ</b> ሞየ <i>ር</i>	NN • Wayne Simpson		

NAME AND ADDRESS OF DEPOSITOR

I IDENTIFICATION OF THE MICROORGANISM				
Identification reference given by the DEPOSITOR:	Accession number given by the INTERNATIONAL DEPOSITARY AUTHORITY:			
Neotyphodium coenophialum AR525	NM02/31942			
II SCIENTIFIC DESCRIPTION AND/OR PROPOSED TAXONOMIC D	DESIGNATION			
The microorganism identified under I above was accompanied by:	·			
a scientific description				
a proposed (axonomic designation				
(Mark with a cross where applicable)				
III RECEIPT AND ACCEPTANCE				
This International Depository Authority accepts the microorganism identified under I above, which was received by it on 2 <sup>nd</sup> October, 2002 (date of the original deposit) 1				
IV RECEIPT OF REQUEST FOR CONVERSION				
The microorganism identified under I above was received by this International Depository Authority on (date of original deposit) and a request to convert the original deposit to a deposit under the Budapest Treaty was received by it on (date of receipt of request for conversion)				
V INTERNATIONAL DEPOSITARY AUTHORITY				
Name: AUSTRALIAN GOVERNMENT	Signature(s) of person(s) having the power			
ANALYTICAL LABORATORIES	to represent the International Depositary			
Address: PO BOX 385 PYMBLB NSW 2073	Authority or of authorised official(s)			
AUSTRALIA Phone: (02) 9449 0111				
Phone: (02) 9449 0111 Facsimile: (02) 9449 1653	Date: 16 <sup>th</sup> October, 2002			

1 Where Rule 6.4(d) applies, such date is the date on which the status of international Depositary Authority was acquired.

Form BP/4 (sole page)

#### INTERNATIONAL FORM

	•_		
P	•	m	٠
-1			٠

AgResearch Limited

Grasslands Research Centre

Tennent Drive Private Bag 11008 Palmerston North New Zealand

ATTENTION: Wayne Simpson NAME AND ADDRESS

OF DEPOSITOR

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

issued pursuant to Rule 7.1 by the INTERNATIONAL DEPOSITARY AUTHORITY

Identified at the bottom of this page

I IDENTIFICATION OF THE MICROORGANISM				
Identification reference given by the DBPOSITOR:	Accession number given by the INTERNATIONAL DEPOSITARY AUTHORITY:			
Neotyphodium coenophialum AR535	NM02/31943			
II SCIENTIFIC DESCRIPTION AND/OR PROPOSED TAXONOMIC	DESIGNATION			
The microorganism identified under I above was accompanied by:				
a scientific description				
a proposed taxonomic designation				
(Mark with a cross where applicable)				
III RECEIPT AND ACCEPTANCE				
This International Depository Authority accepts the microorganism identified under 1 above, which was received by it on 2 <sup>nd</sup> October, 2002 (date of the original deposit) 1				
IV RECEIPT OF REQUEST FOR CONVERSION				
The microorganism identified under I above was received by this International Depository Authority on (date of original deposit) and a request to convert the original deposit to a deposit under the Budapest Treaty was received by it on (date of receipt of request for conversion)				
V INTERNATIONAL DEPOSITARY AUTHORITY				
Name: AUSTRALIAN GOVERNMENT	Signature(s) of person(s) having the power to represent the international Depositary			
ANALYTICAL LABORATORIES Address: PO BOX 385 PYMBLB NSW 2073	Authority or of authorised official(a)			
AUSTRALIA				
Phone: (02) 9449 0111	Date: 16th October, 2002			
Rectimile: (02) 9449-1653	I LINIG! TO CECODE!', ZUUZ			

Where Rule 6.4(d) applies, such date is the date on which the status of International Depositary Authority was acquired.

Form BP/4 (sole page)

#### INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

Grasslands Research Centre Tennent Drive Private Bag 11008 Palmerston North	issued pursuant to Rule 7.1 by the INTERNATIONAL DEPOSITARY AUTHORITY identified at the bottom of this page
New Zealand  ATTENTION: Wayne Simpson NAME AND ADDRESS	
L OF DEFOSITOR	]
I IDENTIFICATION OF THE MICROORGANIS	М
Identification reference given by the DBPOSITOR:	Accession number given by the INTERNATIONAL DEPOSITARY AUTHORITY:
Neotyphodium coenophialum AR539	NM02/31944
II SCIBNTIFIC DESCRIPTION AND/OR PROPOSED TAXONOMIC DESIGNATION	
The microorganism identified under I above was according a scientific description	ompanied by:
a proposed taxonomic designation (Mark with a cross where applicable)	
III RECEIPT AND ACCEPTANCE	
This international Depository Authority accepts the microorganism identified under I above, which was received by it on 2 <sup>nd</sup> October, 2002 (date of the original deposit) <sup>1</sup>	
IV RECEIPT OF REQUEST FOR CONVERSION	·
The microorganism identified under I above was reco (date of original deposit) and a request to couvert the (date of receipt of reques	original deposit to a deposit under the Budapest Treaty was received by it on
V INTERNATIONAL DEPOSITARY AUTHORIT	Ύ
Name: AUSTRALIAN GOVERNMENT ANALYTICAL LABORATORIES Address: PO BOX 385 PYMBLB NSW 2073 AUSTRALIA	Signature(s) of person(s) having the power to represent the International Depositary Authority or of authorised official(s)

Where Rule 6.4(d) applies, such date is the date on which the status of International Depositary Authority was acquired.

Date: 16th October, 2002

Form BP/4 (sole page)

Phone: (02) 9449 0111 Facsimile: (02) 9449 1653

<u>m</u>:

AgResearch Limited